# MAO-A Monoclonal Antibody

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| **Catalog No** | YP-mAb-02667 |
| **Isotype** | IgG |
| **Reactivity** | Human;Mouse;Rat |
| **Applications** | WB |
| **Gene Name** | MAOA |
| **Protein Name** | Amine oxidase [flavin-containing] A |
| **Immunogen** | The antiserum was produced against synthesized peptide derived from human MAO-A. AA range:298-347 |
| **Specificity** | MAO-A Monoclonal Antibody detects endogenous levels of MAO-A protein. |
| **Formulation** | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide. |
| **Source** | Monoclonal, Mouse,IgG |
| **Purification** | The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen. |
| **Dilution** | WB 1:500-1:2000 |
| **Concentration** | 1 mg/ml |
| **Purity** | ≥90% |
| **Storage Stability** | -20°C/1 year |
| **Synonyms** | MAOA; Amine oxidase [flavin-containing] A; Monoamine oxidase type A; MAO-A |
| **Observed Band** | 61kD |
| **Cell Pathway** | Mitochondrion outer membrane ; Single-pass type IV membrane protein ; Cytoplasmic side . |
| **Tissue Specificity** | Heart, liver, duodenum, blood vessels and kidney. |
| **Function** | catalytic activity:RCH(2)NHR' + H(2)O + O(2) = RCHO + R'NH(2) + H(2)O(2).,cofactor:FAD.,disease:Defects in MAOA are the cause of Brunner syndrome (BRUNS) [MIM:300615]. Brunner syndrome is a form of X-linked non-dysmorphic mild mental retardation. Male patients are affected by a syndrome of borderline mental retardation and exhibit abnormal behavior, including disturbed regulation of impulsive aggression. Obligate female carriers have normal intelligence and behavior.,function:Catalyzes the oxidative deamination of biogenic and xenobiotic amines and has important functions in the metabolism of neuroactive and vasoactive amines in the central nervous system and peripheral tissues. MAOA preferentially oxidizes biogenic amines such as 5-hydroxytryptamine (5-HT), norepinephrine and epinephrine.,mass spectrometry: PubMed:11812236,online information:Monoamine oxidase entry,similarity:Belongs to |

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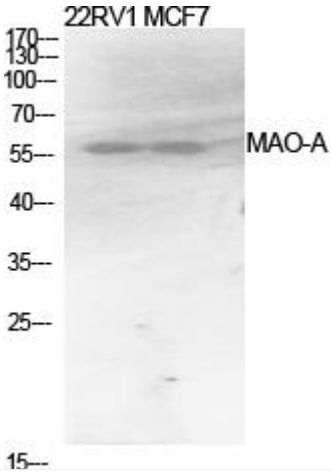
| **Background** | This gene is one of two neighboring gene family members that encode mitochondrial enzymes which catalyze the oxidative deamination of amines, such as dopamine, norepinephrine, and serotonin. Mutation of this gene results in Brunner syndrome. This gene has also been associated with a variety of other psychiatric disorders, including antisocial behavior. Alternatively spliced transcript variants encoding multiple isoforms have been observed. [provided by RefSeq, Jul 2012], |
| **matters needing attention** | Avoid repeated freezing and thawing! |
| **Usage suggestions** | This product can be used in immunological reaction related experiments. For more information, please consult technical personnel. |

## Products Images




Western Blot analysis of various cells using MAO-A Monoclonal Antibody